

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-90

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following 1995 model-year Caterpillar, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
SCP442DZDARK	7.1 (442)	Turbocharger Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
SCP442DZDARK	0.5	0.8	4.6	0.08

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

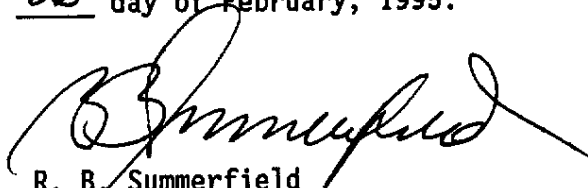
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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 23rd day of February, 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer	Caterpillar Inc.		Engine Family	SCP442DZDARK		
Displacement	7.1	/	Liters	442	/	Cubic Inches
Maximum Rated Power:	300	HP @	2200	RPM	Engine Configuration: 16	
Ignition: Compression	X	Compression with Glow Plug			Spark	
Fuel Type (s): Dedicated		Flex-Fuel	Dual-Fuel	Diesel	X	M100 M85
		CNG	LNG	LPG	Other (specify)	
Diesel Cert Fuel: 13CCR 2282		40 CFR 86.1313-90			40 CFR 86.1313-94	X
Primary Intended Service Class:	LHD	MHD	X	HHD	Urban Bus	
Exhaust ECS (incl. MFI, TC, CAC)	CAC, ECM, TC					

Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3126 (A1)	175@2400	86 (69.6)	1193346	1248309	---	---
3126 (B1)	190@2200	100 (74.3)	1193346	1248311	---	---
3126 (C1)	210@2400	94 (76.0)	1193346	1248313	---	---
3126 (D1)	210@2200	100 (74.2)	1193346	1248315	---	---
3126 (E1)	230@2200	106 (78.4)	1167150	1248317	---	---
3126 (E2)	250@2200	116 (85.7)	1167150	1248319	---	---
3126 (E3)	250@2200	116 (85.7)	1167150	1248321	---	---
3126 (E4)	275@2200	129 (95.2)	1167150	1248323	---	---
3126 (E5)	275@2200	129 (95.2)	1167150	1248325	---	---
3126 (E6)	300@2200	143 (105.6)	1167150	1248327	---	---
3125 (E7)	300@2200	143 (105.6)	1167150	1248329	---	---

ISSUE DATE	03 FEB 95							
REVISION NUMBER								
REVISION DATE								